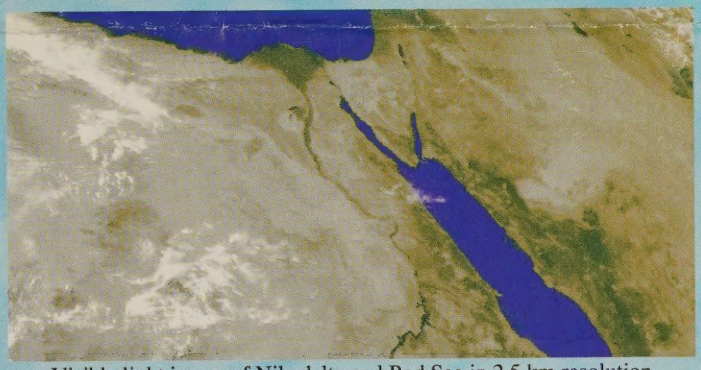
Timestep

The whole of Europe using the colour animation facility

Visible light image of Eastern Europe in 2.5 km resolution



Visible light image of Nile delta and Red Sea in 2.5 km resolution

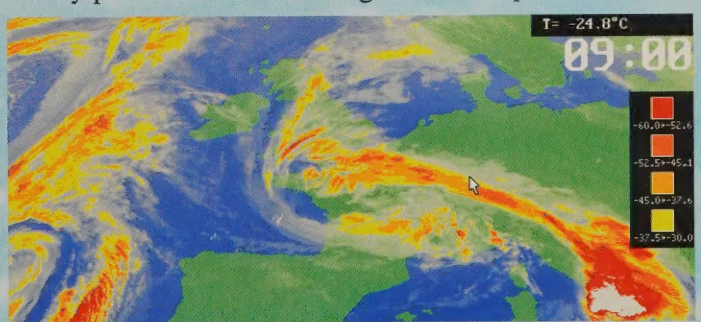
PDUS

Whole Earth PDUS

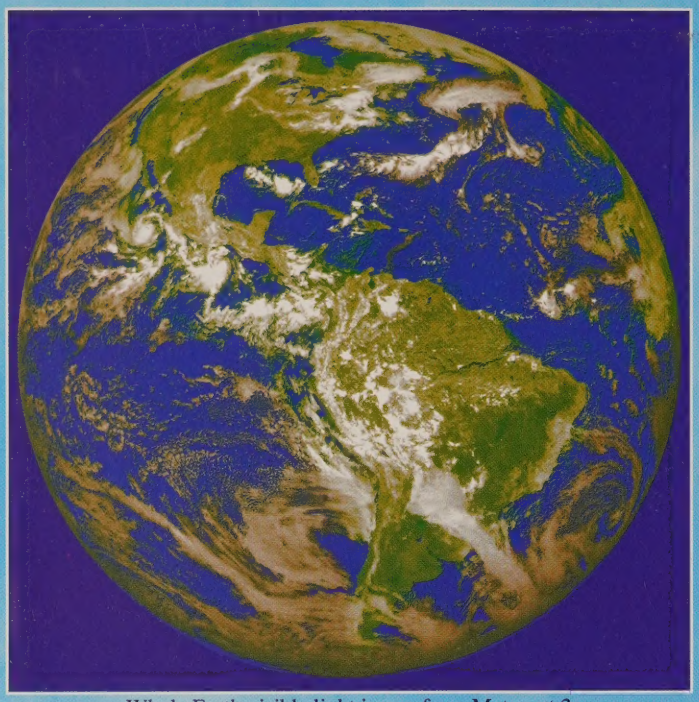
Meteosat PDUS (Primary Data User Station) is now available to amateur, educational and semi-professional users. Used daily by Anglia Television, this system can animate any part of the world visible to the satellite (Europe, Africa and the Middle East from Meteosat 4; North and South America from Meteosat 3). The animation is displayed in full colour with optional on screen temperature information. All areas are transmitted every 30 minutes. Because the whole world is transmitted in one frame any section can be imaged. The frequency of images and the lack of awkward predefined boundaries, combined with real time temperature calibration, makes this system stand out from all other analogue systems. Where the satellite operator allows, the images can be in 2.5km resolution. The specially designed Timestep receiver with advanced threshold extension enables PDUS to be received on a small (5 foot) patio mount perforated dish.

Temperature Calibration

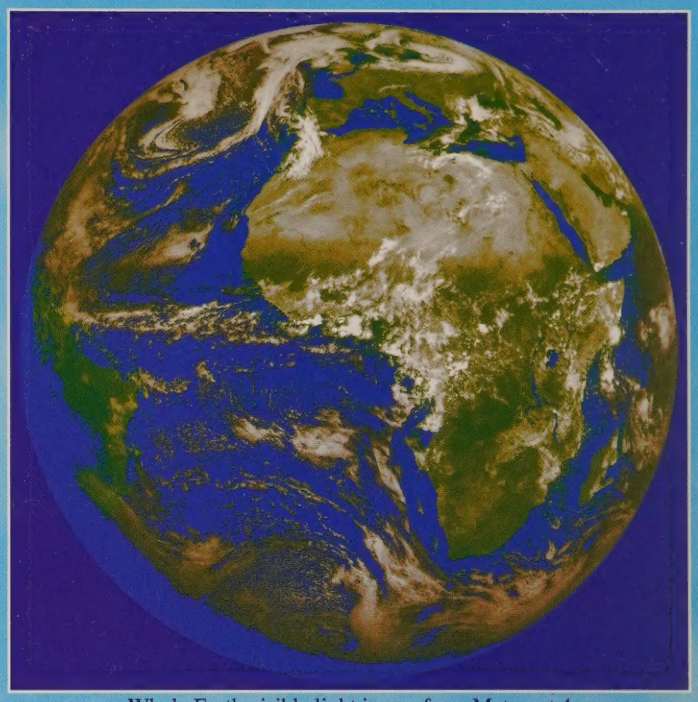
Meteosat PDUS has three spectral bands: Visible for land and low cloud, Infrared for high cloud and night time use, and Water Vapour for upper atmosphere studies. The animation receives Infrared with image processing to give colour images. A temperature slice can be configured to give up to 8 user defined ranges. This works in real time in conjunction with pan and zoom. Also, the temperature of any point can be read using the mouse pointer.



Colour animation frame with temperature slice and readout



Whole Earth visible light image from Meteosat 3



Whole Earth visible light image from Meteosat 4

Software Features

Whole earth transmitted every 30 minutes

Up to 2.5km digital resolution

Full colour animation

Mouse pointer Temperature Readout

User definable cloud Temperature Slice

False colour and contrast stretching

Real time Pan and Zoom while Animating

Both Visible and Infrared images stored as one file

Operation from Meteosat 3 over America and Meteosat 4/5/6 over Europe

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The small 5 foot dish with ground stand

The 2 Channel PDUS Receiver

Colour Animation of North America from Meteosat 3

Computer Requirements

386 or better PC
Fast Hard drive
Mouse (Microsoft compatible)
4MB memory (8MB recommended)
Super VGA
Free 16 bit bus slot

System Parts

5 foot (1.6m) dish and Patio ground stand
P-HEMT Preamplifier
65 foot (20m) signal cable
65 foot (20m) extension and line amp
2 channel PDUS receiver
PDUS PC card

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